

Notice of Allowability

Application No.

09/823,802

Examiner

Duc C. Ho

Applicant(s)

DEWAN ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment after final filed 3-22-07.
2. ☒ The allowed claim(s) is/are 1, 2, 4-8, 10-19, 26-30, and 41. Renumbered 1-23, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 4-12-07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER 'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Luan C. Do on 04-13-07.

The application has been amended as follows:

In the claims:

Claims 36-40 have been canceled.

Claim 1, line 7, after "packet", insert --- wherein the packet includes a protocol header, and ---.

Claim 1, line 9, change "each protocol header" to --- a protocol header in the packet ---.

Claim 7, line 6, after "packet", insert --- wherein the packet includes a protocol header, and ---.

Claim 7, line 8, change "each protocol header" to --- a protocol header in the packet ---.

Claim 16, line 11, change "different" to --- particular ---.

Claim 26, line 1, change "A template within a system on a chip comprising" to --- A chip, comprising ---.

Claim 26, line 2, before "a plurality of calls", insert --- a template comprising ---.

Reason for Allowance

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2. Regarding claims 1-2, 4-8, 10-15, and 41, the prior art fails to teach or suggest a method for a programmable micro-controller comprising a step of loading an instruction word within the micro-controller, wherein the instruction word is loaded from a template, the template having a routine associated with each protocol header, in combination with other limitations, as specified in the independent claims 1, and 7.

Regarding claims 16-19, the prior art fails to teach or suggest a programmable micro-controller comprising a programmable template configured to store a plurality of routines, each routine associated with a particular type of protocol, in combination with other limitations, as specified in the independent claim 16.

Regarding claim 26, the prior art fails to teach or suggest a chip comprising a template comprising a plurality of calls to routines, each routine associated with a particular protocol, each routine including one or more instructions, in combination with other limitations, as specified in the independent claim 26.

Regarding claims 31-35, the prior art fails to teach or suggest in a router having a system on a chip, the chip used to parse a packet or to encapsulate data to form a packet, a method for programming the system on a chip comprising a step of adding a call to the stored (downloaded) routine in a template, the template tying routines together to parse a packet to extract data or to encapsulate data to form a packet, in combination with other limitations, as specified in the independent claim 31.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner



Duc Ho

04-13-07